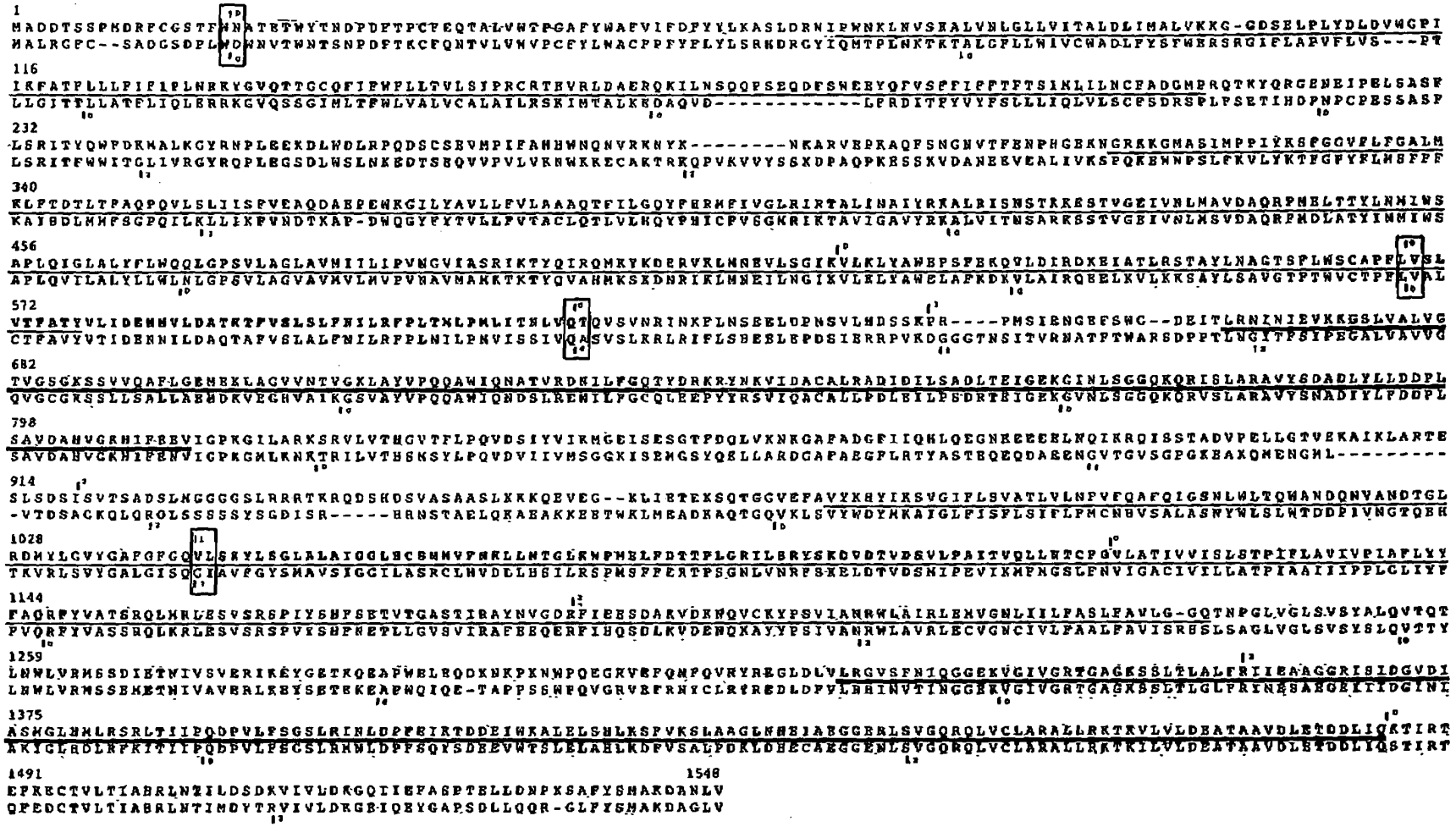
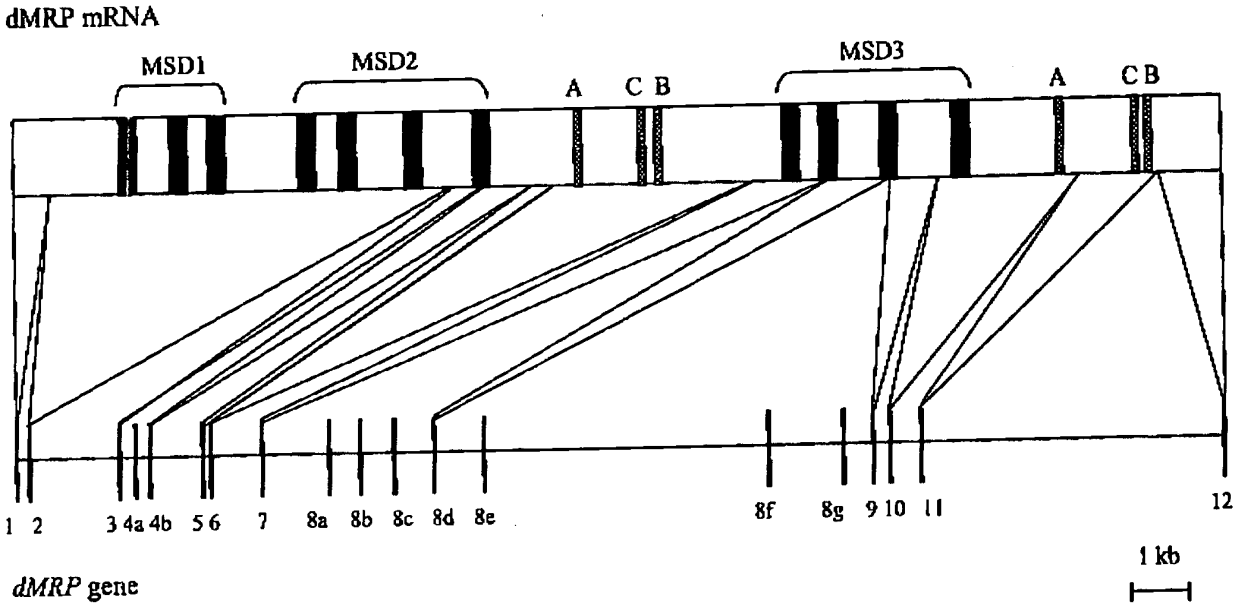


Figure 1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MSD2
MSD3
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C B
A
C B
1 2
3 4a 4b
5 6
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8a
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8c
8d
8e
8f
8g
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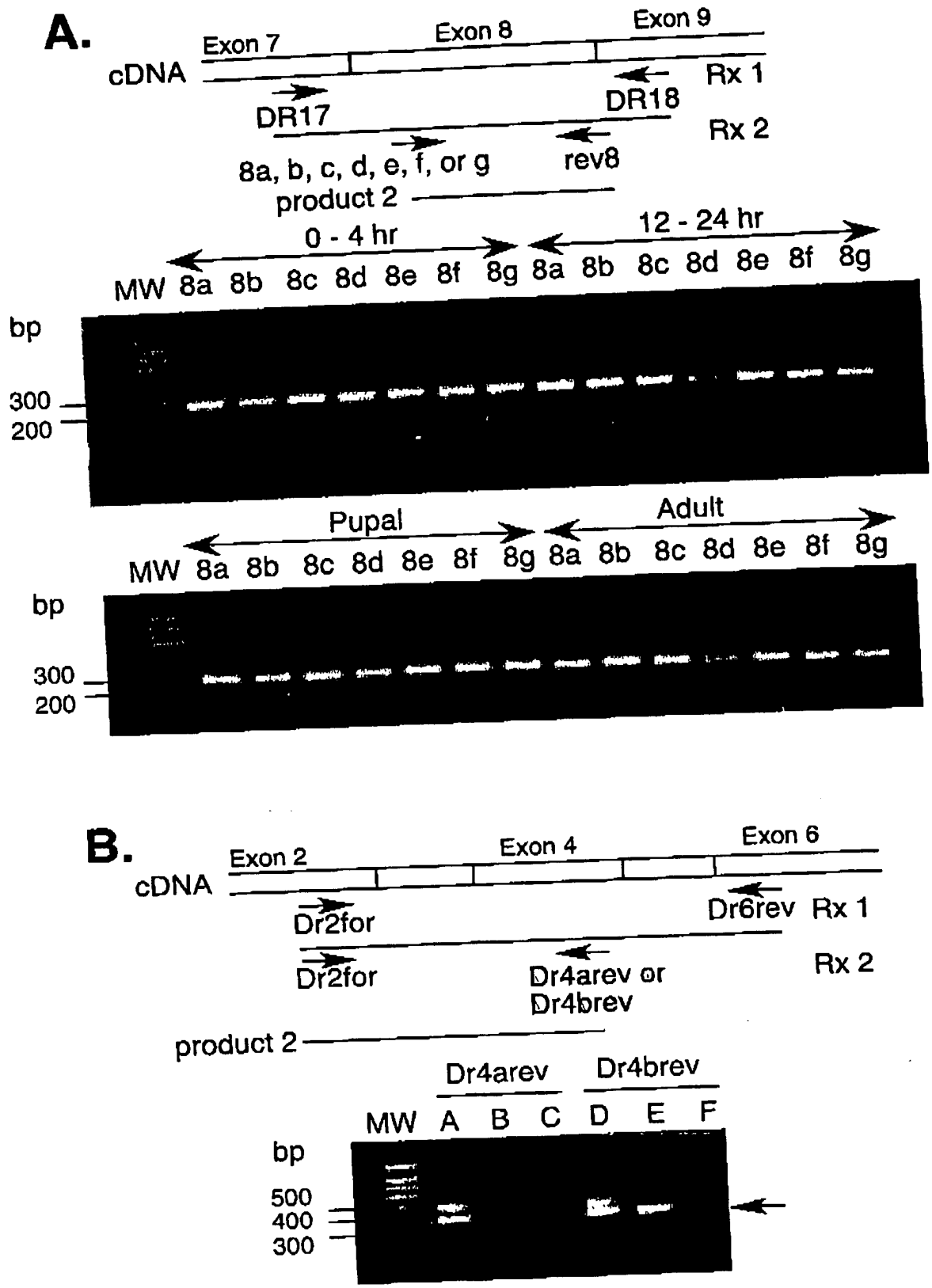
11
12
1 kb
dMRP gene

Figure 2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Exon 7
Exon 8
Exon 9
cDNA
Rx 1
DR17
DR18
Rx 2
8a, b, c, d, e, f, or g
rev8
product 2
0 - 4 hr
12 - 24 hr
MW 8a 8b 8c 8d 8e 8f 8g 8a 8b 8c 8d 8e 8f 8g
bp
300
200
Pupal
Adult
MW 8a 8b 8c 8d 8e 8f 8g 8a 8b 8c 8d 8e 8f 8g
bp
300
200
B.
Exon 2
Exon 4
Exon 6
cDNA
Dr2for
Dr6rev
Rx 1
Dr2for
Dr4arev or
Dr4brev
Rx 2
product 2
Dr4arev
Dr4brev
MW A B C D E F
bp
500
400
300

Figure 3

A

```
MRP1  VALCTFAVYVTIDENN--ILDAQTAFVSLALFNILRFPLNILPMVISSIVQ
MRP2  VSVVTFSVYVLVDSNN--ILDAQKAFTSITLFNILRFPLSMLPMMISSMLQ
MRP3  VTLITLWVYVYVDPNN--VLDAEKAFVSVSLFNILRLPLNMLPQLISNLTQ
4a    VSLVTFATYVLTSEAN--QLSVEKVLVSIALFDLMKLPLTILPMLSVDIAE
4b    VSLVTFATYVLIDENN--VLDATKTFVSLSLFNILRFPLTMLPMLITNLVQ
Dsur  ITFVTLGVYVWLHRDQEFDLNASRLFSSLALFQQLTVPLLIFPITVPIIIA
Cons  V-LVTF-VYV--D-NN---LDA-K-FVS--LFNILR-PL--LPM-I----Q
```

B

```
MRP1  IAVFGYSMAVSIGGILASRCLHVDLLHSILR-SPMSFFERTPSGNLVNRFSKELDTVDSMIPEVIKMFMGSLFN
MRP2  IFVFIAHFWSAFGFVHASNILHKQLLNNILR-APMRFFDTTPTGRIVNRFAGDISTVDDTLPQSLRSWITCFLG
MRP3  FLVMLAAMAMAAGGIQAARVLHQALLHNKIR-SPQSFFDTTPSGRILNCFSKDIYVVDEVLAPVILMLLNSFFN
8a    ATNFFSSLAISLGCLKCSQLLEQTLLYYNLR-WPMELFDTTPLGRIVNRFSKDIDTIDNVLPFNIRVVIGQAYM
8b    VTGYLSTLILSLGCVYSARYHHNVLLHGTLR-WPMEMFDITPLGRIVNRFSKDVDTIDNTLPLNLRVVILQLFA
8c    TSYFFCSLTLALGCIPCSKVLHETLLSYVFR-WPMELFDTTPLGRVVNRFSKDVDTIDNVLPMLWRMVISQAFA
8d    LSKYLSGLALAIGGLHCSMNVFNKLLNTGLK-WPMELFDTTPLGRILSRYSKDVDTVDSVLPAITVQLLNTCFG
8e    VLAYFAVVIVYLGGFQAAKTIHNELLAVIIRGSVCRFFDITPIGRLLNSFSGDMDVVDEELPATMDSFMTFIFM
8f    LCNYGAAISLFTATLHASSRVFHRLFNNIMH-CPSEFFDTTPKGRILDRCSSDVNCLDLVMPLNIRMVMSTAPQ
8g    PTSFFSDLAPALGSLHAAKVLHSMLLENVLR-APMTMFDTTPVGRILSRFSKDVESVDQKMPQVINDCIWCAFE
Dsur  VSTPAGQYAGCNARRNLHDKLL(TILHKTLH-----FFQVTPLGRIVNRFSNDMAVIDKKIAATGQFTLRLLQL
Pfam  LLQGSFYLGERLGQ.RLRKRLFRALLRQILG-LFMSFFDTNSTGELTSRLTNDVSKIRDGLGEKLGLLFQSLAT
Cons  ------------G----S--LH--LL---LR--PM-FFDTTP-GRI-NRFSKD----D--LP----------F-
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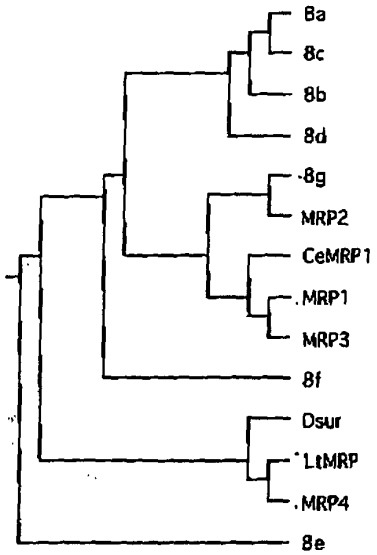
C



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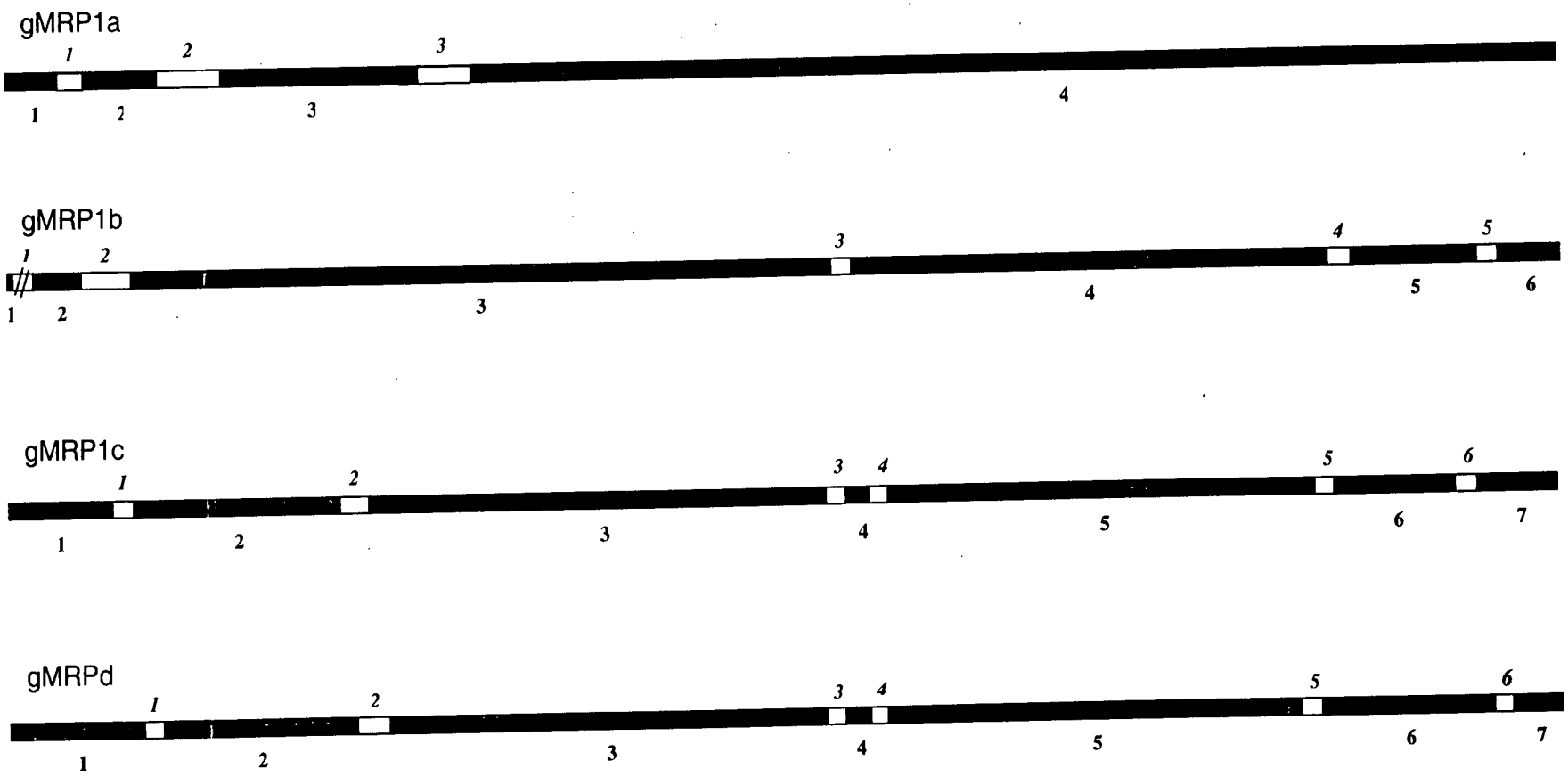
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gMRP1b
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6
gMRP1c
1
2
3
4
5
6
1
2
3
4
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gMRPd
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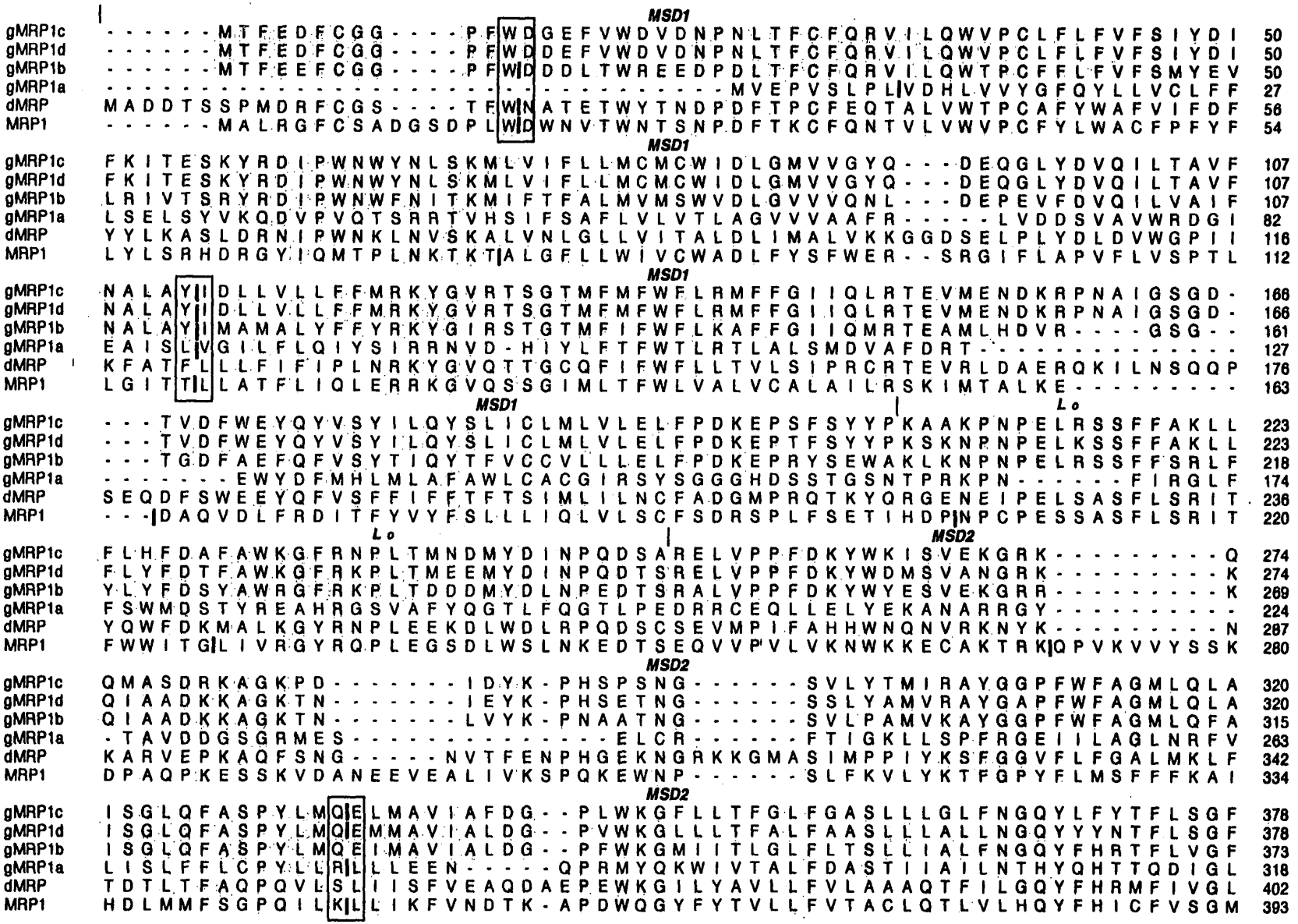
6
7

FIGURE 5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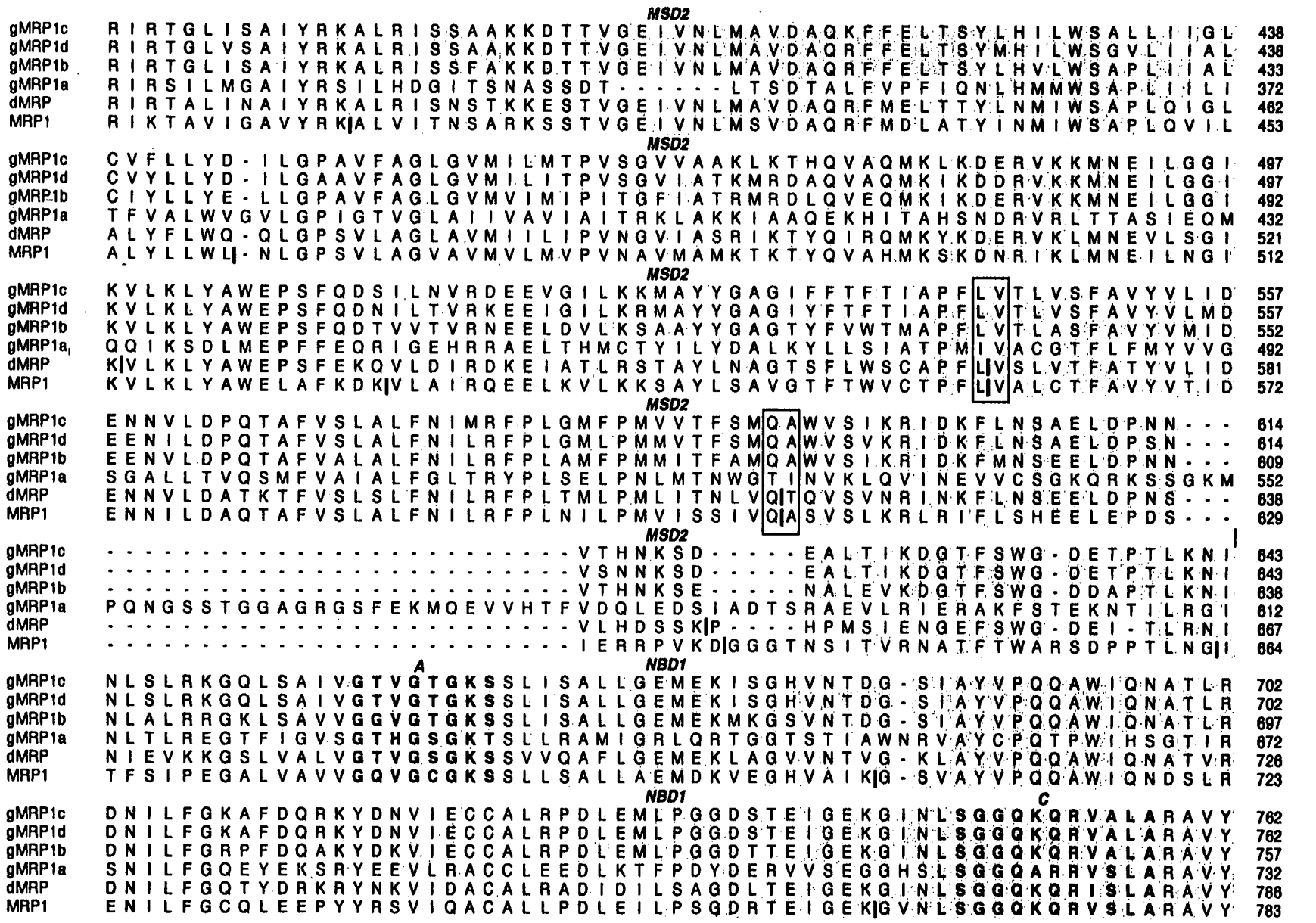
MSD1
MSD1
MSD1
Lo
MSD2
Lo
MSD2
MSD2
gMRP1c
gMRP1d
gMRP1b
gMRP1a
dMRP
MRP1

Figure 6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gMRP1b R I R T G L I S A I Y R K A L R I S S F A K K D T T V G E I V N L M A V D A Q R F F E L T S Y L H V L W S A P L I I A L 433
gMRP1a R I R S I L M G A I Y R S I L H D G I T S N A S S D T - - - - - L T S D T A L F V P F I Q N L H M M W S A P L I I L I 372
dMRP R I R T A L I N A I Y R K A L R I S N S T K K E S T V G E I V N L M A V D A Q R F M E L T T Y L N M I W S A P L Q I G L 462
MRP1 R I K T A V I G A V Y R K A L V I T N S A R K S S T V G E I V N L M S V D A Q R F M D L A T Y I N M I W S A P L Q V I L 453
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gMRP1d - V S N N K S D - - - - - E A L T I K D G T F S W G - D E T P T L K N I 643
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NBD1
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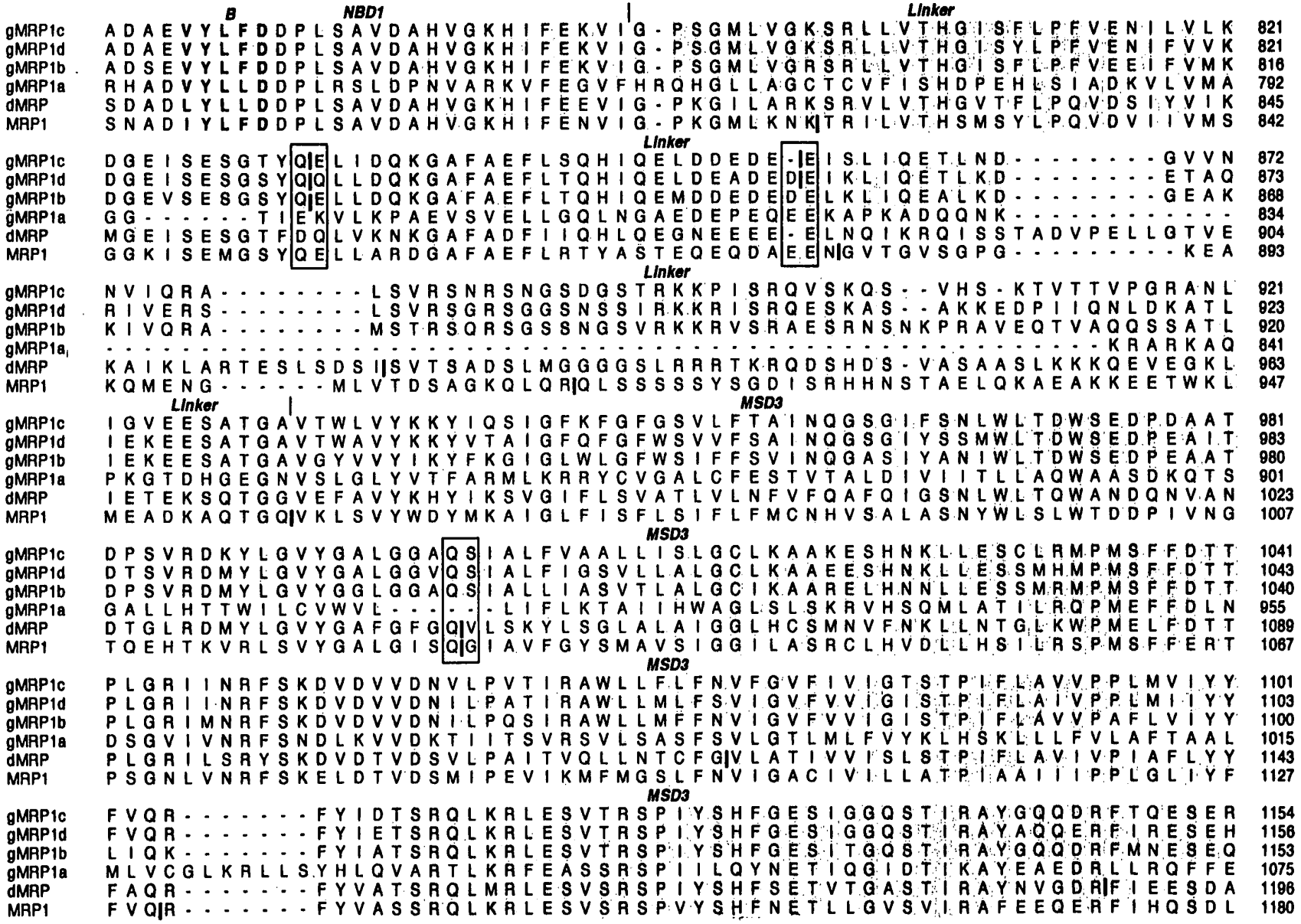
Figure 6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Linker
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Linker
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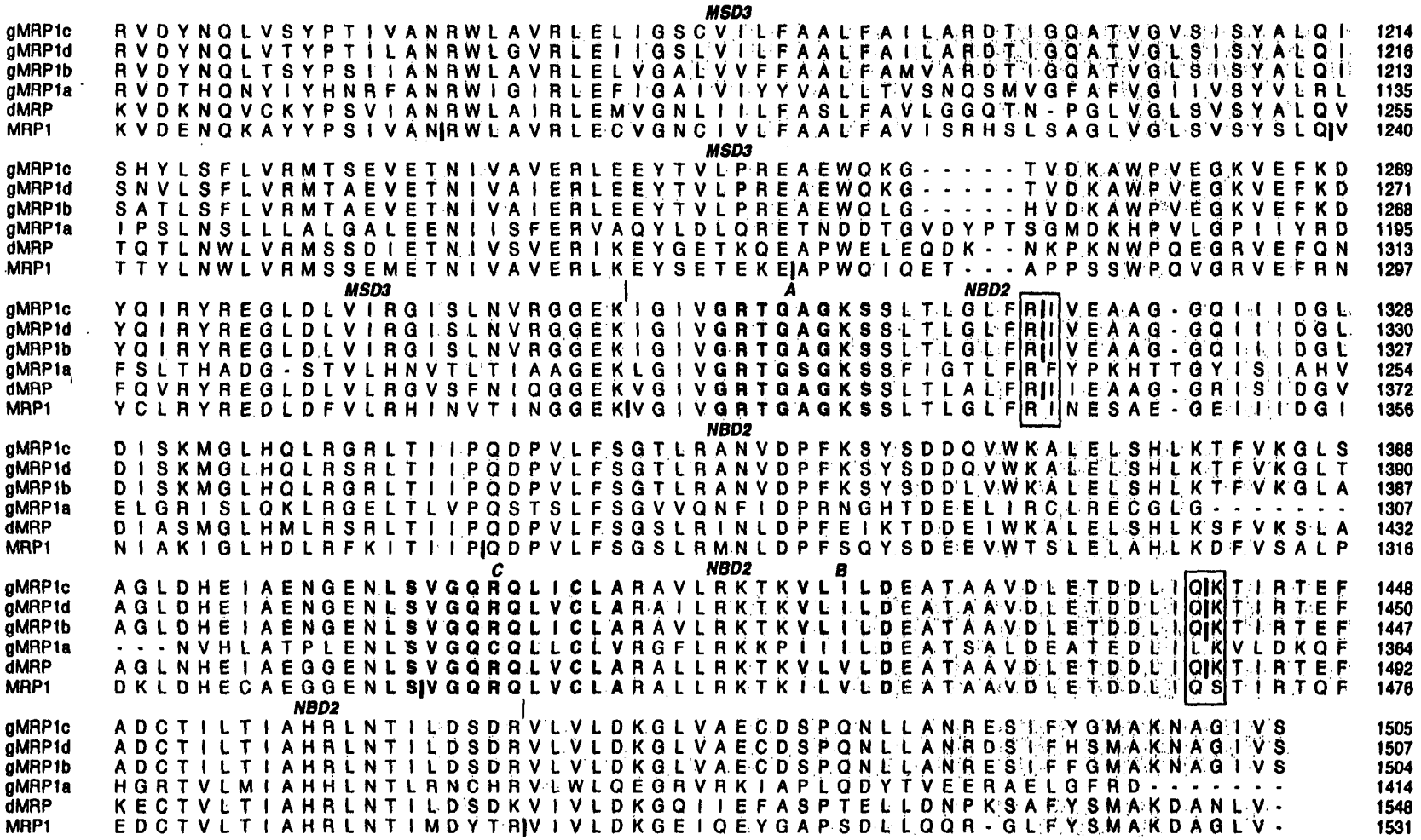
MRP1 F V Q R - - - - - - - F Y V A S S R Q L K R L E S V S R S P V Y S H F N E T L L G V S V I R A F E E Q E R F I H Q S D L 1180

Figure 6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gMRP1d R V D Y N Q L V T Y P T I L A N R W L G V R L E I I G S L V I L F A A L F A I L A R D T I G Q A T V G L S I S Y A L Q I 1216
gMRP1b R V D Y N Q L T S Y P S I I A N R W L A V R L E L V G A L V V F F A A L F A M V A R D T I G Q A T V G L S I S Y A L Q I 1213
gMRP1a R V D T H Q N Y I Y H N R F A N R W I G I R L E F I G A I V I Y Y V A L L T V S N Q S M V G F A F V G I I V S Y V L R L 1135
dMRP K V D K N Q V C K Y P S V I A N R W L A I R L E M V G N L I I L F A S L F A V L G G Q T N - P G L V G L S V S Y A L Q V 1255
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gMRP1c S H Y L S F L V R M T S E V E T N I V A V E R L E E Y T V L P R E A E W Q K G - - - - - T V D K A W P V E G K V E F K D 1269
gMRP1d S N V L S F L V R M T A E V E T N I V A I E R L E E Y T V L P R E A E W Q K G - - - - - T V D K A W P V E G K V E F K D 1271
gMRP1b S A T L S F L V R M T A E V E T N I V A I E R L E E Y T V L P R E A E W Q L G - - - - - H V D K A W P V E G K V E F K D 1268
gMRP1a I P S L N S L L L A L G A L E E N I I S F E R V A Q Y L D L Q R E T N D D T G V D Y P T S G M D K H P V L G P I I Y R D 1195
dMRP T Q T L N W L V R M S S D I E T N I V S V E R I K E Y G E T K Q E A P W E L E Q D K - - N K P K N W P Q E G R V E F Q N 1313
MRP1 T T Y L N W L V R M S S E M E T N I V A V E R L K E Y S E T E K E|A P W Q I Q E T - - - A P P S S W P Q V G R V E F R N 1297
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gMRP1c Y Q I R Y R E G L D L V I R G I S L N V R G G E K I G I V G R T G A G K S S L T L G L F R|I V E A A G - G Q I I I D G L 1328
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MRP1 Y C L R Y R E D L D F V L R H I N V T I N G G E K|V G I V G R T G A G K S S L T L G L F R I N E S A E - G E I I I D G I 1356
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dMRP D I A S M G L H M L R S R L T I I P Q D P V L F S G S L R I N L D P F E I K T D D E I W K A L E L S H L K S F V K S L A 1432
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dMRP A G L N H E I A E G G E N L S V G Q R Q L V C L A R A L L R K T K V L V L D E A T A A V D L E T D D L I Q|K T I R T E F 1492
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MRP1 E D C T V L T I A H R L N T I M D Y T R|V I V L D K G E I Q E Y G A P S D L L Q Q R - G L F Y S M A K D A G L V - 1531

Figure 6